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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|------------------------|-------------------------------|------------------------|
| 10/780,271 | 02/17/2004 | Philip C. Hodge | 110308-0001 | 2235 |
| 39905 | 7590 | 02/20/2008 | EXAMINER [REDACTED] | |
| ROETZEL AND ANDRESS 222 SOUTH MAIN STREET AKRON, OH 44308 | | | STEVENS, ROBERT [REDACTED] | |
| | | ART UNIT [REDACTED] | PAPER NUMBER 2162 | |
| | | | MAIL DATE 02/20/2008 | DELIVERY MODE PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | |
|------------------------------|-----------------|--------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 10/780,271 | HODGE ET AL. |
| | Examiner | Art Unit |
| | Robert Stevens | 2162 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 01 November 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,3-16,18,19,22-30,32-34,36-41,43-45 and 47-56 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1,3-16,18,19,22-30,32-34,36-41,43-45 and 47-56 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 05 February 2007 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The Office withdraws the previous rejections of the claims under 35 USC § 103(a), in light of the amendment. However, the Office sets forth new rejections of the claims under 35 USC §§101 103(a), in light of the amendment.

Response to Arguments

2. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Applicant's arguments concerning the rejection of the claims under 35 USC §103(a) appear to be primarily directed to the newly amended claim language. New rejections citing a new reference have been set forth below to address the amended claim language.

Continued Examination Under 37 CFR 1.114

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/31/2007 has been entered.

Specification

4. The disclosure is objected to because of the following informalities: Paragraph [0037] of page 10 states that “[t]his hardware ... is typical for implementing software of the present invention”. First, it appears that the word “the” is missing from this sentence between “implementing” and “software”. Second, it appears that another word such as “executing” or “running” may have been intended rather than “implementing”, as hardware is not used to “implement” software. Please correct all such spelling/grammatical/etc. errors in the disclosure. Appropriate correction is required.

Drawings

5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: the specification refers to “DMS 100” in numerous places (see for example, paragraph [0044] on page 13), but the corresponding reference number does not appear to be in the drawings. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any

required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

6. **Claims 33 and 56 are objected to** because of the following informalities: Regarding claim 33, it appears that the word "and" at the end of line 7 is unnecessary, and that a semicolon ";" and the word "and" are missing between "device" and "means" on line 9 of the claim. Regarding claim 56, there appears to be an extraneous semicolon ";" between "logic" and "and" on line 14 of the claim. Appropriate correction is required. See MPEP 608.01(m).

Claim Rejections - 35 USC § 101

7. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

8. **Claims 1, 3-16, 18-19, 22-30 and 32 are rejected under 35 U.S.C. 101** because the claimed invention is directed to non-statutory subject matter.

Independent claims 1, 27 and 32 are directed to software *per se* (i.e., a software system or apparatus). See the specification at paragraph [0044] in context of paragraph [0046], which indicate that the inventive subject matter may be a software "add-in" (i.e., a plug-in to a software application). **Claim 1** appears to be directed to a software system comprised of logic modules intended to be provided to a computer. **Claim 27** appears to be directed to a collection of software means. **Claim 32** appears to be directed to a collection of software and data elements.

Each of these claims encompasses a mere collection of software modules and thus each lacks the necessary physical articles or objects (e.g., hardware elements) to constitute a machine or a manufacture within the meaning of 35 USC §101. Each of these claims is clearly not a series of steps or acts to be a process nor is it a combination of chemical compounds to be a composition of matter. As such, each of these claims fails to fall within a statutory category. Each claim is, at best, functional descriptive material *per se*.

Claims 3-16, 18-19 and 22-26 depend upon claim 1, and do not correct the deficiencies of that claim. These claims are likewise rejected.

Claims 28-30 depend upon claim 27, and do not correct the deficiencies of that claim. These claims are likewise rejected.

Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. **Claims 1, 3-19, 22-34, 36-41 and 43-56 are rejected under 35 U.S.C. 103(a)** as being unpatentable over Kim et al. (US Patent Application Publication No. 2003/0120729, filed as a continuation of Application no. 08/908544, which was filed on Aug. 7, 1997 and published on Jan. 26, 2003, hereafter referred to as “Kim”) in view of Ferguson et al. (US Patent No. 6,820,094, filed Oct. 8, 1997 and issued Nov. 16, 2004, hereafter referred to as “Ferguson”) and Grefenstette et al. (US Patent Application Publication No. 2004/0205448, provisionally filed on Aug. 13, 2001 and published on Oct. 14, 2004, hereafter referred to as “Grefenstette”).

Regarding independent claim 1: Kim discloses

A data-management system to be provided to a digital computer terminal for generating a link in real time between an electronic document opened in a computer application and a target document, said digital computer terminal comprising a computer readable memory and a data-capture device, (See the Abstract and paragraphs [0012] – [0014] in Kim, discussing automatic link generation between a target and an HTML document opened in a browser application upon scanning a document into a target file digital format) **said data-**

management system comprising: data-capture logic for controlling capture of electronic data by said data-capture device; (See Figure 4 #4 in Kim, showing the use of a scanner.) target-document logic for generating said target document from said electronic data; and (See paragraph [0012] in Kim, discussing inputting a document to a scanner or fax and creating a file.) link-generating logic for substantially simultaneously storing said target document in said computer readable memory and generating said link to said target document in said electronic document in real time; (See paragraphs [0012] – [0014] in Kim, discussing automatic link generation and storage and noting that paragraph [0014] discusses retrieval of the created image file, which inherently required that the file be stored before being retrieved.) data-management logic for transmitting said electronic document and said target document to a data storage device (See paragraphs [0013] – [0014] in Kim, discussing the storage of documents.)

However, Kim does not explicitly teach *wherein said data management logic and said link editing logic automatically updates the path of said link to maintain functionality of said link following said transmission* Ferguson, though, suggests this limitation. (See column 3 lines 59-65 in Ferguson, discussing updating the STG data storage file, in the context of column 7 lines 47-57, discussing a scenario involving link generation due to “the modification of its corresponding document”.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Ferguson for the benefit of Kim, because to do so provided a user with

an efficient way to automatically import, index, categorize, store, search, retrieve, manipulate and archive electronic documents, as taught by Ferguson in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Additionally, Kim does not explicitly teach *and link-editing logic for updating a path of said link* Grefenstette, though, suggests this limitation. (See Grefenstette paragraph [0295] discussing the dynamic updating of links.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Grefenstette for the benefit of Kim in view of Ferguson, because to do so provided a user with a system for enriching or supplementing the document that the user is accessing, as taught by Grefenstette in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Regarding claim 3: Kim does not explicitly teach the use of top-level directories and subfolders. Ferguson, though, suggests this limitation. (See Figure 3 and column 4 lines 59-67 in Ferguson, illustrating the use of top-level folder and subdirectories. The specific data one arranged in a hierarchy was an obvious variant to one skilled in the art at the time of the invention.)

Regarding claim 4: Kim teaches the use of hard disk data storage. (See Figure 1 #3 in Kim, showing a file server computer, it having been well-known in the art that file server computers contain a hard drive.

Regarding claim 5: Kim does not explicitly teach printing. Ferguson, though, suggests this limitation. (See column 11 lines 29-32 in Ferguson, discussing a utility for viewing and printing documents.)

Regarding claims 7-12: Kim does not explicitly teach the recited limitations. Ferguson, though, suggests these limitations. (See column 10 lines 9-11 in Ferguson, discussing the processing of multipage documents, and column 15 lines 34-40, discussing the linking of a plurality of documents to/from a compound document. Establishing links, whether in a 1:1, 1:MANY, MANY:1 or MANY:MANY fashion, was an obvious variant to one skilled in the art at the time of the invention.)

Regarding claim 13: Kim does not explicitly teach link removal. Ferguson, though, suggests this limitation. (See column 7 lines 53-57 in Ferguson, discussing the removal of only the link.)

Regarding claims 15-18: Kim does not explicitly teach the recited limitations.

Ferguson, though, suggests the use of an add-in. (See Figure 12 in Ferguson, showing the display results for a browser application add-in.) Ferguson also suggests the use of a data management system. (See the Abstract of Ferguson, discussing a document management application program, it having been an obvious variant to one skilled in the art at the time of the invention as to number of software modules and the location of specific functionality in each module.) Ferguson also suggests link-editing/ updating. (See column 3 lines 59-65 in Ferguson, discussing the updating of an STG data storage file.) Ferguson teaches the use of icons. (See column 12 lines 41-52 in Ferguson, discussing the use of icons to represent links.)

Regarding claim 22: Kim does not explicitly teach printing. Ferguson, though, suggests

this limitation. (See column 11 lines 29-32 in Ferguson, discussing a utility for viewing and printing documents.)

Regarding claims 23-26: Kim does not explicitly teach the recited limitations.

Ferguson, though, suggests these limitations. (See column 10 lines 9-11, discussing the processing of multipage documents, and column 15 lines 34-40, discussing the linking of a plurality of documents to/from a compound document. Establishing links, whether in a 1:1, 1:MANY, MANY:1 or MANY:MANY fashion, was an obvious variant to one skilled in the art at the time of the invention.)

Regarding independent claim 27: Kim discloses

A data-management system for generating a plurality of links to target documents in an electronic document, (See the Abstract and paragraphs [0012] – [0014] in Kim, discussing automatic link generation between a target and an HTML document opened in a browser application upon scanning a document into a target file digital format) **said data-management system comprising:** means for creating and editing said electronic document; means for generating a plurality of target documents from electronic data captured by a data-capture device; (See paragraph [0012] in Kim, discussing inputting a document to a scanner or fax and creating a file object.) **means for storing said plurality of captured target documents in a computer readable memory;** and **means for generating a link at a plurality of user-selected locations in said electronic document to said plurality of captured target documents.** (See paragraphs [0012] – [0014] in Kim, discussing automatic link generation and storage and noting that paragraph [0014] discusses retrieval of the created image file, which inherently required that the file be stored before being retrieved.)

However, Kim does not explicitly teach editing, generation of a plurality of documents or use of sequential identifiers. Ferguson, though, suggests editing. (See column 12 lines 8-15 in Ferguson, discussing an edit menu and editing functions.) Ferguson also suggests the generation of a plurality of target documents. (See column 15 lines 30-39 in Ferguson, discussing clipped documents being formed from a plurality of documents such as images, Word documents and

HTML files, and column 15 line 63 – column 16 line 6, discussing links to a compound document from each component target document.) Ferguson further suggests the use of sequential identifiers for targets. (See column 5 lines 1-15 in Ferguson, discussing the sequential numbering of documents [e.g., D₁, D₂, etc.].)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Ferguson for the benefit of Kim, because to do so provided a user with an efficient way to automatically import, index, categorize, store, search, retrieve, manipulate and archive electronic documents, as taught by Ferguson in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Additionally, Kim does not explicitly teach *means for updating a path of said plurality of hyperlinks in a user selected range of said electronic document*. Grefenstette, though, suggests this limitation. (See Grefenstette paragraph [0295] discussing the dynamic updating of links.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Grefenstette for the benefit of Kim in view of Ferguson, because to do so provided a user with a system for enriching or supplementing the document that the user is accessing, as taught by Grefenstette in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Regarding claim 28: Kim does not explicitly teach printing. Ferguson, though, suggests this limitation. (See column 11 lines 29-32 in Ferguson, discussing a utility for viewing and printing documents.)

Regarding claim 29: Kim teaches “transmitting” documents to storage. (See paragraphs [0013] – [0014] in Kim, discussing storage of documents.) However, Kim does not explicitly teach updating link paths. Ferguson, though, suggests this limitation. (See column 3 lines 59-65 in Ferguson, discussing updating the STG data storage file, in the context of column 7 lines 47-57, discussing a scenario involving updates requiring link elimination.)

Claim 30 is substantially similar to claim 3, and therefore likewise rejected.

Regarding claim 31: Kim does not explicitly teach updating link paths. Ferguson, though, suggests this limitation. (See column 3 lines 59-65 in Ferguson, discussing updating the STG data storage file, in the context of column 7 lines 47-57, discussing a scenario involving updates requiring link elimination.)

Regarding independent claim 32: Kim discloses

A system for linking a target document to a portion of an electronic document in real time (See the Abstract of Kim, discussing automatic link generation to a scanned document)

file), said system comprising: a computer application for generating and editing said electronic document; (See the Abstract of Kim, discussing the use of a scanner and generation of an electronic file.) link-generating logic operable with said computer application for generating a link to said target document, wherein said target document is an electronic reproduction of a hardcopy document and is to be generated by scanning said hardcopy document with an optical data-capture device, further wherein said link is to be generated at approximately the same time as said captured target document is to be saved, and further wherein said computer application is one of a group consisting of a spreadsheet, word processor, database, presentation application, and any combination thereof. (See the Abstract and paragraphs [0012] – [0014] in Ferguson, discussing a browser application and automatic link generation to an HTML page and storage, in context of [0005], discussing the scanning of paper documents using an optical data-capture device such as a scanner. It is noted that paragraph [0014] discusses retrieval of the created image file, which requires that the file be stored.)

However, Kim does not explicitly teach editing. Ferguson, though, suggests editing. (See column 12 lines 8-15 in Ferguson, discussing an edit menu and editing functions.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Ferguson for the benefit of Kim, because to do so provided a user with an efficient way to automatically import, index, categorize, store, search, retrieve, manipulate and archive electronic documents, as taught by Ferguson in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Additionally, Kim does not explicitly teach *and link-editing logic for updating a path of said link*; Grefenstette, though, suggests this limitation. (See Grefenstette paragraph [0295] discussing the dynamic updating of links.) *and the link is automatically updated* Grefenstette, though, suggests this limitation. (See Grefenstette paragraph [0295] discussing the dynamic updating of links.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Grefenstette for the benefit of Kim in view of Ferguson, because to do so provided a user with a system for enriching or supplementing the document that the user is accessing, as taught by Grefenstette in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Regarding independent claim 33: Kim discloses

A data-management system for linking a portion of an electronic document to a target document, (See the Abstract of Kim, discussing linking an input image) *said data-management system comprising: a data-capture device for capturing electronic data representing an information object;* (See Figure 4 #4 in Kim, showing the use of a scanner.) *means for generating said target document from said electronic data;* (See paragraph [0012] in Kim, discussing inputting a document to a scanner or fax and creating a file.) *a computer readable memory to store said target document; and* (See paragraph [0014] in Kim, which discusses the

retrieval of the created image file, which required that the file be stored before being retrieved. It is inherent that such data storage required a computer readable memory.) **means for substantially simultaneously storing said target document in said computer readable memory and generating a link to said target document in said electronic document.** (See paragraphs [0012] – [0014] in Kim, discussing automatic link generation and storage and noting that paragraph [0014] discusses retrieval of the created image file, which inherently required that the file be stored before being retrieved.) **means for transmitting said electronic document and said target document to a data storage device.** (See paragraphs [0013] – [0014] in Kim, discussing the storage of documents.)

However, Kim does not explicitly teach *wherein said transmitting means automatically updates a path of said link to maintain functionality of said link following transmission*. Ferguson, though, suggests this limitation. (See column 3 lines 59-65 in Ferguson, discussing updating the STG data storage file, in the context of column 7 lines 47-57, discussing a scenario involving link generation due to “the modification of its corresponding document”.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Ferguson for the benefit of Kim, because to do so provided a user with an efficient way to automatically import, index, categorize, store, search, retrieve, manipulate and archive electronic documents, as taught by Ferguson in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Additionally, Kim does not explicitly teach *means for updating a path of said plurality of hyperlinks in a user-selected range of said electronic document*, Grefenstette, though, suggests this limitation. (See Grefenstette paragraph [0295] discussing the dynamic updating of links.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Grefenstette for the benefit of Kim in view of Ferguson, because to do so provided a user with a system for enriching or supplementing the document that the user is accessing, as taught by Grefenstette in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Regarding claim 34: Kim teaches the use of a scanner. (See paragraph [0012] of Kim.)

Claims 36-37 are substantially similar to claims 3-4, respectively, and therefore likewise rejected. It is further noted that the exact “means” (e.g., hardware or software element) in which a particular functionality was implemented, was an obvious variant to one skilled in the art at the time of the invention.

Regarding claims 38-39: Kim does not explicitly teach printing. Ferguson, though, suggests this limitation. (See column 11 lines 29-32, discussing a utility for viewing and printing documents.)

Regarding independent claim 40: Kim discloses *An electronic-document management method for creating and managing an electronic document having a link to a target document in a computer application,* (See the Abstract and paragraphs [0012] – [0014] in Kim, discussing automatic link generation between a target and an HTML document opened in a browser application upon scanning a document into a target file digital format) *said method comprising the steps of: generating said target document from electronic data representing an information object captured by a data-capture device; and* (See paragraph [0012] in Kim, discussing inputting a document to a scanner or fax and creating a file object.) *substantially simultaneously storing said target document in a computer readable memory and generating said link at said user-selected location in said electronic document.* (See paragraphs [0012] – [0014] in Kim, discussing automatic link generation and storage and noting that paragraph [0014] discusses retrieval of the created image file, which inherently required that the file be stored before being retrieved.) **transmitting said electronic document and said target document to a data storage device upon receiving a command from a user;** (See paragraphs [0013] – [0014] in Kim, discussing the storage of documents.)

However, Kim does not explicitly teach *and updating a path of said link to render said link operable after said transmission*. Ferguson, though, suggests this limitation. (See column 3 lines 59-65 in Ferguson, discussing updating the STG data storage file, in the context of column 7 lines 47-57, discussing a scenario involving link generation due to “the modification of its corresponding document”.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Ferguson for the benefit of Kim, because to do so provided a user with an efficient way to automatically import, index, categorize, store, search, retrieve, manipulate and archive electronic documents, as taught by Ferguson in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Additionally, Kim does not explicitly teach *and updating the path of said link* Grefenstette, though, suggests this limitation. (See Grefenstette paragraph [0295] discussing the dynamic updating of links.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Grefenstette for the benefit of Kim in view of Ferguson, because to do so provided a user with a system for enriching or supplementing the document that the user is accessing, as taught by Grefenstette in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Regarding claim 41: Kim does not explicitly teach document viewing. Ferguson, though, suggests this limitation. (See Figure 1 element #169 and column 11 lines 28-32 in Ferguson, discussing document viewing.

Claim 43 is substantially similar to claim 3, and therefore likewise rejected.

Regarding claim 44: Kim does not explicitly teach printing. Ferguson, though, suggests this limitation. (See column 11 lines 29-32 in Ferguson, discussing a utility for viewing and printing documents.)

Claim 45 is substantially similar to claim 18, and therefore likewise rejected.

Claim 46 is substantially similar to claim 17, and therefore likewise rejected. It is further noted that manual intervention or automatic updating, were obvious variants in light of each other to one skilled in the art at the time of the invention.

Regarding independent claim 47: Kim discloses

An electronic-document management method for creating and managing an electronic document having a plurality of links to target documents in a computer application, (See the Abstract and paragraphs [0012] – [0014] in Kim, discussing automatic

link generation between a target and an HTML document opened in a browser application upon scanning a document into a target file digital format. It was an obvious variant to one skilled in the art at the time of the invention to include more than one link.) **said method comprising the steps of: generating a plurality of target documents from electronic data representing one or more information objects captured by a data-capture device;** (See paragraph [0012] in Kim, discussing inputting a document to a scanner or fax and creating a file object.) **generating one or more links to the target documents in said electronic document.** (See the Abstract and paragraphs [0012] – [0014] in Kim, discussing automatic link generation between a target and an HTML document opened in a browser application upon scanning a document into a target file digital format. It was an obvious variant to one skilled in the art at the time of the invention to include more than one link.)

However, Kim does not explicitly teach **editing, generation of a plurality of documents or use of sequential identifiers.** Ferguson, though, suggests editing. (See column 12 lines 8-15 in Ferguson, discussing an edit menu and editing functions.) Ferguson also suggests the generation of a plurality of target documents. (See column 15 lines 30-39 in Ferguson, discussing clipped documents being formed from a plurality of documents such as images, Word documents and HTML files, and column 15 line 63 – column 16 line 6, discussing links to a compound document from each component target document.) Ferguson further suggests the use of sequential identifiers for targets. (See column 5 lines 1-15 in Ferguson, discussing the sequential numbering of documents [e.g., D₁, D₂, etc.].)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Ferguson for the benefit of Kim, because to do so provided a user with an efficient way to automatically import, index, categorize, store, search, retrieve, manipulate and archive electronic documents, as taught by Ferguson in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Additionally, Kim does not explicitly teach *and updating the path of said link*. Grefenstette, though, suggests this limitation. (See Grefenstette paragraph [0295] discussing the dynamic updating of links.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Grefenstette for the benefit of Kim in view of Ferguson, because to do so provided a user with a system for enriching or supplementing the document that the user is accessing, as taught by Grefenstette in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Claims 48-49 are substantially similar to claim 42 and claim 3, respectively, and therefore likewise rejected.

Regarding claim 50: Kim does not explicitly teach printing. Ferguson, though, suggests this limitation. (See column 11 lines 29-32 in Ferguson, discussing a utility for viewing and printing documents.)

Regarding claim 51: Kim does not explicitly teach the use of icons. Ferguson teaches the use of icons. (See column 12 lines 41-52 in Ferguson, discussing the use of icons to represent links.)

Regarding claim 52: Kim does not explicitly teach updating link paths. Ferguson, though, suggests this limitation: (See column 3 lines 59-65 in Ferguson, discussing updating the STG data storage file, in the context of column 7 lines 47-57, discussing a scenario involving updates requiring link elimination.)

Regarding claim 53: Kim does not explicitly teach user selected link locations, comparing the number of locations with the number of documents to be linked and generating a link for each document. Ferguson, though, suggests these limitations. (See column 9 lines 51-65 in Ferguson, discussing updating the importing documents, and column 9 lines 27-31, discussing the linking of multiple documents.)

Claims 54-55 are substantially similar to claims 24-25, respectively, and therefore likewise rejected.

Regarding independent claim 56: Kim discloses *A data-management system for generating a hyperlink in real time between a portion of an electronic document opened in a computer application and a target document,* (See the Abstract and paragraphs [0012] – [0014] in Kim, discussing automatic link generation between a target and an HTML document opened in a browser application upon scanning a document into a target file digital format. It was an obvious variant to one skilled in the art at the time of the invention to include more than one link.) *said system comprising: a digital computer terminal comprising a computer readable memory and a data-capture device;* (See Figure 2 #88 and #82 of Kim) *data-capture logic in communication with said digital computer terminal for controlling capture of electronic data by said data-capture device;* (See The Kim Figure 2 #80, 81 and 82, in context of paragraph [0012] discussing the use of a scanner.) *target-document logic in communication with said digital computer terminal for generating said target document from said electronic data;* (See the Abstract of Kim, discussing generation of a target document via a scanning process for display in a browser.) *link-generating logic in communication with said digital computer terminal for substantially simultaneously storing said target document in said computer readable memory and generating said link to said target document in said electronic document in real time;* (See the Abstract and paragraphs [0012] – [0014] in Kim, discussing automatic link generation between a target and an HTML document opened in a browser application upon scanning a document into a target file digital

format. It was an obvious variant to one skilled in the art at the time of the invention to include more than one link.) *data-management logic for transmitting said electronic document and said target document to a data storage device.* (See paragraphs [0013] – [0014] in Kim, discussing the storage of documents.)

However, Kim does not explicitly teach *wherein said data-management logic automatically updates a path of said link to maintain functionality of said link following said transmission.* Ferguson, though, suggests this limitation. (See column 3 lines 59-65 in Ferguson, discussing updating the STG data storage file, in the context of column 7 lines 47-57, discussing a scenario involving link generation due to “the modification of its corresponding document”.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Ferguson for the benefit of Kim, because to do so provided a user with an efficient way to automatically import, index, categorize, store, search, retrieve, manipulate and archive electronic documents, as taught by Ferguson in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Additionally, Kim does not explicitly teach *link-editing logic for updating a path of said link;* Grefenstette, though, suggests this limitation. (See Grefenstette paragraph [0295] discussing the dynamic updating of links.) *and said link updating logic for updating a path of said link automatically updates a path of said link to maintain functionality of said link*

following said transmission. Grefenstette, though, suggests this limitation. (See Grefenstette paragraph [0295] discussing the dynamic updating of links.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Grefenstette for the benefit of Kim in view of Ferguson, because to do so provided a user with a system for enriching or supplementing the document that the user is accessing, as taught by Grefenstette in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of electronic documents.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent Application Publications

| | |
|-------------|--------------|
| Meier et al | 2002/0083079 |
| Omoigui | 2003/0126136 |

US Patents

| | |
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| Grefenstette et al | 7,284,191 |
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| Peairs | 6,182,090 |
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| Peairs | 5,903,904 |
| Peairs | 5,717,940 |

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Stevens whose telephone number is (571) 272-4102. The examiner can normally be reached on M-F 6:00 - 2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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February 14, 2008


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